

Remarks

Claims 20-41 are in the application. Reconsideration and reexamination are respectfully requested.

The present application is a continuation-in-part (C-I-P) application to U.S. patent application serial number 09/643,507, for which predecessor application a Notice of Allowance has been issued and for which predecessor application the issuance fees have been paid.

1. Substitutionary New Claims are Presented as the Simplest Way of Seeing that the Claims of the Present Application are But Modifications and Extensions to the Allowed Claims of the Predecessor Application

The present C-I-P patent application is related to said predecessor application serial number 09/643,507 for, inter alia, more completely expounding, and claiming, (1) lighting and ray tracing (see, for example, original claim 2 and added claim 21); (2) quality parameters for the scene subject (see, for example, original claim 3 and added claim 22); (3) virtual objects (see, for example, original claim 5 and added claim 24); (4) and the relative quality of the source models and the produced scenes (many claims). NOTE: By the preceding statement Applicant does NOT admit that these matters, or any of them, were NOT completely taught in accordance with the requirements of 35 U.S.C. section 112, within his first application serial number 09/643,507, but only that these matters are MORE completely dealt with in the present application.

Still more particularly, the present application serial number 10/081,841 teaches several extensions of the methods and systems taught in allowed Application 09/643,507. These involve the use of stand-in: (i) low resolution 3D models (geometry), (ii) texture maps, and (iii) virtual lights, to interactively

present on the client computer, a *preview-quality* perspective view image of the desired photorealistic scene, instead of the plan view iconic representation described in application serial number 09/643,507. Such preview images are desirable, inasmuch as high-quality, photorealistic renderings, such as ray-tracings, can be very time-consuming even when performed on fast computers circa 2005. Such preview aids the user in specifying a set of scene objects of complimentary style and scale, and a camera position and parameters to be later used in a high-quality, photorealistic rendering, by providing a practically instantaneous preview on the client computer of the exact view that will ultimately be obtained in the high-quality rendering performed on the server computer, and transmitted to the client for viewing minutes or hours later. Furthermore, the present Application 10/081,841 also teaches specifics about the specification of the scene file used to provide the server computer with the information needed to render the photorealistic image. More specifically, it teaches (for efficiency reasons) that such scene file may contain only the names of geometry and texture files, rather than the detailed high-resolution geometry files and texture maps themselves, needed to produce the final high-resolution image on the server.

Because the 51 claims in predecessor serial number 09/643,507 have now been allowed, the presently-presented amended claims for the present application are limited, and specific to the above extensions described in this application.

The claims of said predecessor application serial number 09/643,507 were last amended on December 27, 2004. A copy of this final amendment in the related predecessor application, and a copy of the claims as should appear in the issuing application, are attached hereto for the convenience of the Examiner. (The Examiner may by the time of his continuing examination care to instead retrieve these documents from the PAIR system, OR to simply get what by then will hopefully be a copy of an ISSUED

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patent on Applicant's related predecessor application serial number 09/643,507.)

For purposes of simplified examination, the existing claims of the present C-I-P patent application are canceled, with the independent claims being substituted for by newly ADDED claims several independent ones of which are substantial accordance with certain (allowed, issuing) independent claims of the predecessor patent application. Others of these claims may be recognized to be directed to the particular enhancements of the present application set forth above.

Namely, those original claims of the present application now CANCELED may be compared with those claims now ADDED as shown in the following chart, and these ADDED claims may be themselves compared with the shown claims of the predecessor application.

Canceled Claim	Compare to Added Claim	Compare to Claim of Predecessor Application
1	20	1
2/1	21/20	
3/1	22/20	
4	23	13
5/4	24/23	
6/4	25/23	
7/4	26/23	
8/4	27/23	
9/4	28/23	
10/4	29/23	
11/10	30/29	
12	31	13
13/12	32/31	
14	33	

15/14	34/33
16/15	35/34
17/14	36/33
18	37
19	38
	39
	40
	41/40

2. Rejections by the Examiner in the Present Application are Like as the Same Rejections on Substantially the Same Art as Were Made in the Predecessor Application, and are Overcome by the Same Argument Previously Presented in the Predecessor Application

In the related predecessor application serial number 09/643,507, many claims were initially rejected by the examiner on the basis of Bourdelais, Fischer and others. All such objections were successfully overcome by applicant in and by his December 27, 2004, Amendment, and by previous amendments, to said serial number 09/643,507 -- a Notice of Allowance being subsequently received for all 51 amended claims. Applicant respectfully directs the examiner to such amendments for a detailed discussion of Bourdelais and Fischer.

With respect to Bourke, Technicon, Cheng and Kjallstrom, Applicant believes that examiner's objections are no longer relevant in light of applicant's receipt of a Notice of Allowance for Application 09/643,507 and the related amendment of the Claims of this present application.

Because the 51 claims in 09/643,507 have now been allowed, the amended claims for this (10/081,841) application are limited, and specific to the above extensions described above.

3. Conclusion

The present amendment and remarks have overcome and discussed each of the bases for the rejections presented in the Office Action. No new subject matter has been introduced by the present amendment.

In consideration of the preceding amendment and accompanying remarks, the present amendment is deemed worthy of entrance, and the present application is deemed in condition for allowance. The timely action of the Examiner to that end is earnestly solicited.

Applicants' undersigned attorney is at the Examiner's disposal should the Examiner wish to discuss any matter which might expedite prosecution of this case.

Sincerely yours,

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☒ Attorney of Record
☐ Filed Under 37 CFR §1.34(a)

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this AMENDMENT and the documents referred to as attached therein are being deposited with the United States Postal Service in an envelope addressed to: Mail Stop Amendments - Patent, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date written below.

Serial No. 09/643,507

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August 25, 2004

Date

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